TE-PUFPLUS Hi-Vol Calibration Data Form

Site Information

Full Site Name: _Burns Harbor- Port of Indiana_

Site Abbreviation _BHP_   Sampler Serial No. _1002_

Field Technician Name _Katie Healy & Kate Haile_   Date _6/25/21_ Time _10:20 CST_

Timer/Sensor Checks *Allow Temp/Pressure standard to acclimate for 10 minutes before reading.*

Is the date correct? (YES)   NO   (circle one)

Is the time within ±5 minutes of local standard time? (YES)   NO   (circle one)

Temp/Pressure Standard Make/Model: _Deltacal DC1_

Temp/Pressure Standard Serial No.: _34_   Temp/Pressure Standard Certification Date: _8/18/2020_

$T_{amb\ transfer\ standard}$ (°C) _23.5_ $T_{amb\ PUFPLUS}$ (°C) _23.5_   ($T_{amb\ transfer\ standard} - T_{amb\ PUFPLUS}$) = _0_ °C

Is the PUFPLUS Temperature sensor within ±2°C of the Transfer Standard? (YES)   NO   (circle one)

$P_{amb\ transfer\ standard}$ (mmHg) _741.5_ $P_{amb\ PUFPLUS}$ (mmHg) _742_   ($P_{amb\ transfer\ standard} - P_{amb\ PUFPLUS}$) = _-0.5_ mmHg

Is the PUFPLUS Pressure sensor within ±10mmHg of the Transfer Standard? (YES)   NO   (circle one)

- If both of the above are YES, sensor check is complete. Proceed with flow check.
- If either of the both is NO, use the TE-PUFPLUS Operator's Manual to troubleshoot and retry the sensor check. If the issue persists, add a calibration point to the faulty sensor as described in the SOP in Section 10.2.3. Note that a calibration was done here:

Calibration Orifice Information

Orifice Make/Model: _Graseby/Tisch_   Orifice Serial No.: _62K_

Orifice Slope "$m_{orifice}$": _10.46067_   Orifice Intercept "$b_{orifice}$": _-0.16706_

Orifice Certification Date: _2/4/21_

Hi-Vol Calibration Information *Check off each item.*

☑ Flow Conditions are set to "STD"?

☑ Flow Rate is set to 225 liters per minute?

Calibration Method: Manual (Automatic) (circle one)

Enter $m_{orifice}$ value from above when prompted to "Enter Calibrator Standard m".

Enter $b_{orifice}$ value from above when prompted to "Enter Calibrator Standard b".

☑ Hi Flow Rate should be 247 liters/min

☑ Lo Flow Rate should be 202 liters/min

Correction Coefficient "R" _0.9992_ >0.990? (Yes) No   (circle one)

Hi-Vol Slope "m_{hivol}" (A1) _42.7224_   Hi-Vol Intercept "b_{hivol}" (A0) _-2.0602_

Note: If the Correction Coefficient is ≤0.990, repeat the calibration.

☑ Calibration saved?